Notebook, N-92-03-30

This notebook covers the period March-May 1892. At the beginning of the book are entries by Edison and Arthur E. Kennelly regarding various electrical experiments, along with theoretical notes relating to dynamos, dielectrics, electric lighting, and magnetism. The remainder of the book contains notes, drawings, and calculations by Kennelly and by unidentified Galvanometer Room experimenters pertaining to differential dynamometers, transformers, batteries, and a 3-wire electrical distribution system. Transcriptions of the Galvanometer Room records can be found in Arthur E. Kennelly Notebook #6. The spine is labeled "135." The book contains 197 numbered pages.

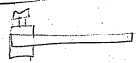
Only the Edison material has been filmed.

N-92-03-30

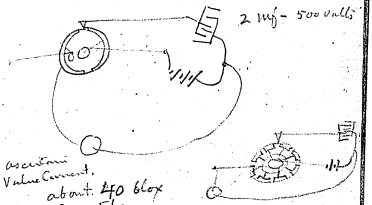
XE-172

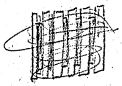
①

Saturate this ring to 40000 lines per scm. then wound over the saturated system a primary secondary or primary alone or oscillator self induction working during between 25 & 40000 lines.

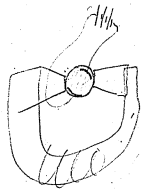


Different vibrating periods of different magnetic materials see of law implications in formation of Electrons





To have heat given off in
alternating through a
Storage Battery



Wonder how Instances
Cures would be with powdered
wow + melted glass mixed
75% . 25% glass.

account for 3/16 blue
spark on 6 cy jumps

1 See if there is any change of Res or C.P in glow lamp in any position in Magnetic field –

Vibrate filament by outside magnet that is worked by vibrator & estimate the vibrating period of a glow lamp filament at red & then find out the cause of change in the vibrating period by rise of C.P –

Statement I made that an incandescent lamp burning near a Electric bell went up to great brilliancy several times & then went back to normal

Leyden jars are imperfectly made ~~[illegible]~~ Phillips is said How would it do to use Sn foil & Hg as with mirrors or by Vacuum process?

Dielectric are the opposite of Magnetic in every? analogy?

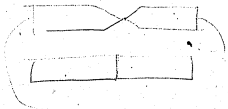
All Electro Chemical processes follow that of dielectrics.

All sources, Electric of Energy tend to take that path in which the greatest amount of Energy can be transformed into heat,

Radiant heat from a given source recd on one side of a metallic plate gives motion to the atomic systems of the metal & is given out on the other side at different periods or rate than the original depending on each particular molecule

All matter whose atoms or molecules are periodic with some pitch in radiant energy absorb all other periods & emit only the particular vibrations periodic with its atomic system

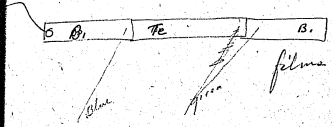
hence thin films of metals showed not the pitch of the molecular in terms of the spectra periods

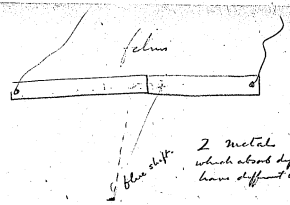


for Dark box use
one single turn and put on
all the amperes it will stand
~~[illegible]~~ so as to get rid of
self induction + length of
arc – perhaps the single
turn could be put in
circulating water –

As it cannot be supposed
that Je + Antony actually
touch when held lightly together
then ultra should permit of
a current by its action on
the surface + by the heat
absorbed – the latter being
direct source of Energy
+ ultra wave rate the
Conductor to permit of
Conduction across an space

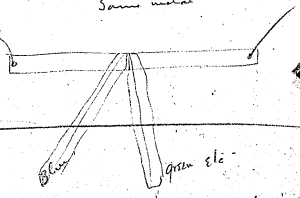
c c metal a.b. diamond
transparent dielectric such as glass
fused phosphoric acid — idea is
beam of light resolved into heat
at junction or electrify the
electrons from c c'.



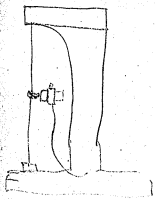


2 metals which absorb def or have different Color.

Same metal



absorbs one not the other. or with variation



With Sb point, and Te anvil
deflection as high as 10 in
direction indicating cooling

C point
Pt " } both 5 divs indicating heat

Platinum plate dark purple
changed to electric plate
Feb 25, 1900
when back of clamp plate
burned off, spirit lamp, fell
to 24,000.